STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PLAN LEGEND

Town, County, State		Catch Basins	Existing / Proposed
Property Lines		Manholes	Existing / Proposed
R/W Lines-Existing		Proposed Underdrain	
R/W Lines-Proposed		Proposed Ditch	
Culvert-Existing		Existing Ditch	
Culvert Proposed		Utility Poles	Existing / Proposed
Curbing	Existing / Proposed	Fire Hydrants	Existing / Proposed
Type 1		Existing Water Line	W
Type 3		Existing San. Sewer	
Type 5		Existing San. Sewer Manhole	
Outline of Bodies of Water		Guardrail-Existing	
Exposed Bedrock		Guardrail-Proposed	
Buildings		Centerline-Existing	
Trees	Conifer / Deciduous	Centerline-Proposed	10+00
Tree Line		Travelway-Existing	
Clearing Limit Line	CLL	Travelway-Proposed	
Railroad			

Boring — HB-XXX-###
Pavement Core — PC-#
Test Pit — TP-XXX-###

Probe — P-#.#X
#.# = Depth
X = W (Weathered Rock)
R (Refusal)
NR (No Refusal)

PERRY

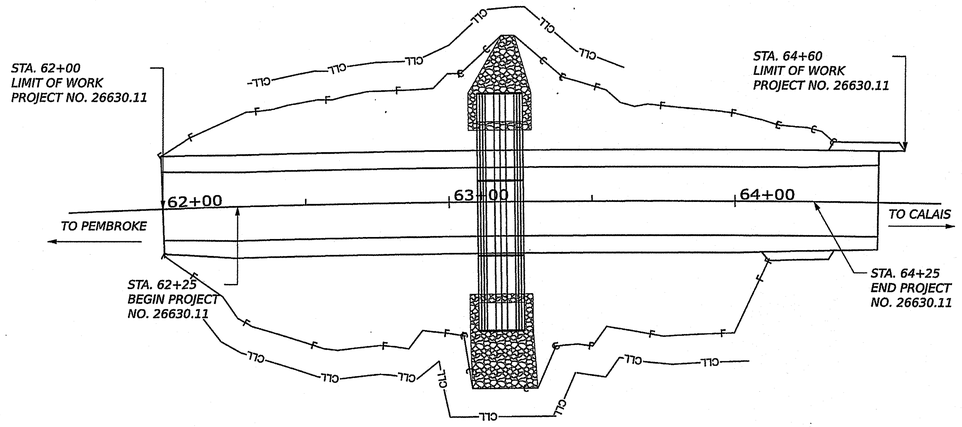
WASHINGTON COUNTY

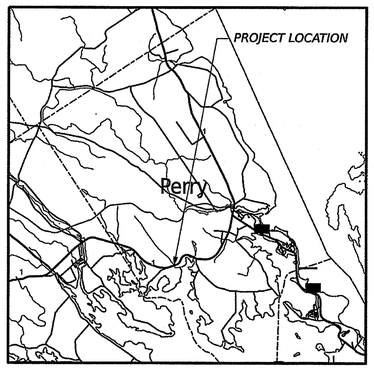
ROUTE 1
EAST BAY BRIDGE 1
BRIDGE NO. 6775

FEDERAL PROJECT NO.2663011

PROJECT LENGTH: 0.04 MILES

INDEX OF SHEETS





LOCATION MAP

TRAFFIC DATA

Current (2025) AADT	1720
Future (2045) AADT	1890
DHV - % of AADT	13%
Design Hour Volume	246
% Heavy Trucks (AADT)	11%
% Heavy Trucks (DHV)	8%
Directional Distribution (DHV)	52%
18-kip Equivalent P 2.0	86
18-kip Equivalent P 2.5	82
Design Speed (mph)	55
Corridor Priority	2

LAYOUT SCALE

25 0 25 50

Scale in Feet

PROJECT LOCATION:	CROSS CULVERT (#88081) LOCATED 0.21 OF A MILE EAST OF BURBY ROAD.
PROGRAM AREA:	REGIONAL
SCOPE OF WORK:	LARGE CULVERT REPLACEMENT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
ACTING COMMISSIONER: DATE 8-25-25
CHIEF ENGINEER: DATE 8-20-25

STATE OF MAINE — James D. Baines, Jr. 18093 — REGISTERED PROFESSIONAL ENGINEER

SIGNATURE
P.E. NUMBER 18093
DATE 8/14/2025

PROJECT INFORMATION

PROGRAM	REGIONAL
PROJECT MANAGER	R. BARROWS
DESIGNER	J. BAINES
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

PERRY
ROUTE 1

TITLE SHEET

SHEET NUMBER 1 OF 16

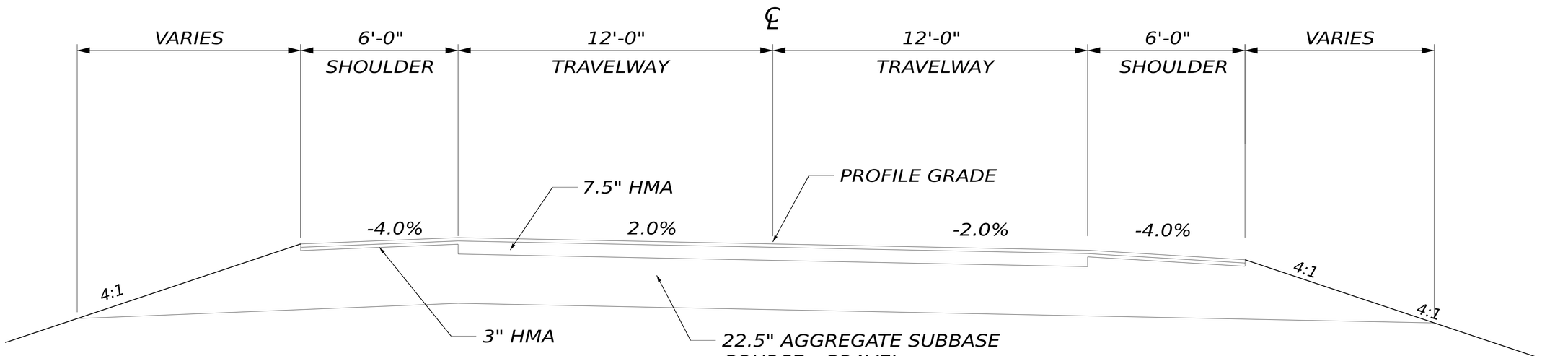
FEDERAL PROJECT NO. 2663011

WIN 26630.11

Username: James.Baines Date: 8/14/2025

Filename: C:\Users\dominique.ouellette\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\26630_11_RD_TITLE.dgn

TYPICAL SECTION



4:1 SLIDE SLOPES
STATION TO STATION
62+00 TO 63+10 LT
63+30 TO 64+50 LT
62+00 TO 62+85 RT
63+35 T0 63+60 RT

2 LANE TRAVELWAY
STATION TO STATION
62+00 TO 64+50

3:1 SIDE SLOPES
STATION TO STATION
63+10 TO 63+30 LT
62+85 TO 63+35 RT
63+60 TO 64+50 RT

NOTES:

1. THE PAVEMENT BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.

3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.

4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

5. THE STATIONING SHOWN UNDER EACH TYPICAL SECTION IS APPROXIMATE.

SUPERELEVATION TABLE				

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

	DATE	BY
PROJ MANAGER		
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

PERRY
ROUTE 1

TYPICAL SECTIONS

SHEET NUMBER

2

OF 21

Username: James.Baines Date: 8/20/2025

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Typical Section.dgn

203.20			
203.25	Granular Borrow	230	CY
203.33	Special Fill	130	CY
304.10	Aggregate Subbase Coarse Gravel - Type D	760	CY
403.2081	Hot Mix Asphalt - 12.5 mm Nominal Maximum Size (Polymer Modified)	90	T
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size	250	T
409.15	Tack	20	G
508.13	Sheet Waterproofing Membrane (50 SY)	1	LS
511.07	Cofferdam - Upstream	1	LS
511.07	Cofferdam - Downstream	1	LS
534.71	Precast Concrete Box Culvert	1	LS
610.08	Plain Riprap	20	CY
610.21	Stream Channel Rock	30	CY
610.213	Void-Filled Riprap	60	CY
615.10	Dirty Borrow	60	CY
618.14	Seeding Method Number 2	6	UN
619.12	Mulch	6	UN
620.58	Erosion Control Geotextile	110	SY
627.733	4 Inch White or Yellow Painted Pavement Mark Line	750	LF
629.05	Hand Labor, Straight Time	40	HR
631.12	All Purpose Excavator (including operator)	40	HR
631.172	Truck - Large (including operator)	40	HR
631.18	Chainsaw Rental (including operator)	10	HR
639.19	Field Office Type B	1	EA
643.72	Temporary Traffic Signal	1	HR
652.312	Barricade Type III	6	EA
652.33	Drum	30	EA
652.34	Cone	100	EA
652.35	Construction Signs	260	SF
652.36	Maintainance of Traffic Control Devices	30	CD
652.38	Flagger	250	HR
652.41	Portable Changeable Message Sign	2	EA
652.61	Staged Construction and Traffic Control	1	LS
656.75	Temporary Soil Erosion and Water Pollution Control Plan	1	LS
659.10	Mobilization	1	LS

GENERAL NOTES

1. CLEARING LIMITS SHALL BE 10 FEET BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

2. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

3. THE CLEARING AND SELECTIVE CLEARING AND THINNING LINES SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY. THE ACTUAL LINES FOR CLEARING AND THINNING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.

4. ALL INSLOPE AND DITCHES IN CUT AREAS SHALL BE GRADED AS SHOWN ON THE TYPICALS OR FLATTER, OR AS DIRECTED BY THE RESIDENT.

5. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.

6. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

7. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1 FOOT ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATIONS ITEM 703.19, GRANULAR BORROW.

8. GRAVEL ENTRANCES SHALL BE CONSTRUCTED WITH 14 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL OR 11 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL AND 3 INCHES OF UNTREATED AGGREGATE SURFACE COURSE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

9. A 3-FOOT PAVED LIP SHALL BE PLACED AT ALL UNPAVED ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

10. EXISTING INSLOPES IN PROPOSED FILL AREAS SHALL BE BENCHED BY EXCAVATING STEPS OF SUFFICIENT WIDTH TO PERMIT PLACING AND COMPACTING THE FILL MATERIAL ALONG WITH THE MATERIAL REMOVED.

11. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING (OR MILLING) SHALL BE INCIDENTAL TO THE RELATED PAVING (OR MILLING) ITEMS. THIS INCLUDES KILLING AND REMOVAL OF ALL VEGETATIVE MATTER.

12. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW-SIDE SHOULDER, THE LOW-SIDE SHOULDER WILL HAVE SAME SLOPE AS THE TRAVELWAY.

13. CROSS SLOPES FOR NORMAL AND SUPERELEVATED SECTIONS WILL BE STRAIGHT UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.

14. THE ALGEBRAIC DIFFERENCE BETWEEN TRAVELWAY AND SHOULDER CROSS SLOPE SHALL NOT EXCEED 8 PERCENT.

15. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

16. ALL EXISTING GUARDRAIL REMOVED AND NOT REUSED ON THE PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

17. UNLESS OTHERWISE NOTED SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL OTHER AREAS.

18. DIRTY BORROW SHALL BE PLACED TO A NOMINAL DEPTH OF 2 INCHES UNLESS OTHERWISE NOTED OR DIRECTED.

19. ANY BASE PAVEMENT NOT SURFACED BEFORE WINTER WILL REQUIRE TEMPORARY PAVEMENT MARKINGS OF PAINT, BOTH YELLOW CENTERLINE AND WHITE EDGE LINES AND WILL BE CONSIDERED PART OF STANDARD SPECIFICATIONS ITEM 627.78, TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW.

20. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT

21. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING OPERATIONAL BUSINESS DIRECTIONAL SIGNS (OBDS) TO ENSURE THAT THEY ARE VISIBLE TO THE TRAVELING PUBLIC. PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

22. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

23. THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL DESIGN REPORT FOR THE CONSTRUCTION OF EAST BAY BRIDGE", SOILS REPORT 2025-32, AUGUST 1, 2025 CAN BE ACCESSED AT THE MAINEDOT WEBSITE HTTPS://WWW.MAINE.GOV/DOT/DOING-BUSINESS/BID-OPPORTUNITIES.

24. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.

25. AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.

26. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

27. FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR PER THE STRIPING LAYOUT IN THE CONTRACT DOCUMENTS OR AS PROVIDED BY THE DEPARTMENT. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

	DATE	BY
PROJ. MANAGER		
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

R. BARROWS

PERRY
ROUTE 1

GENERAL NOTES AND
ESTIMATED QUANTITIES

SHEET NUMBER

3

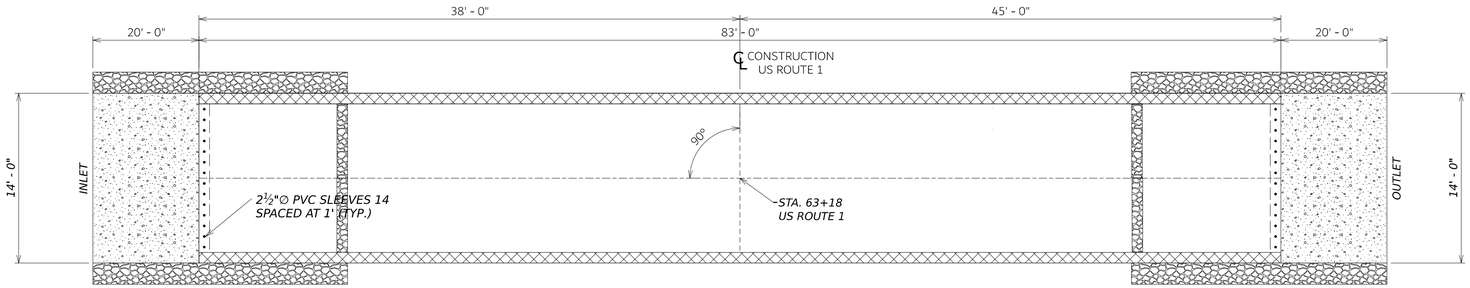
OF 16

Date: 8/21/2025

Username: James.Baines

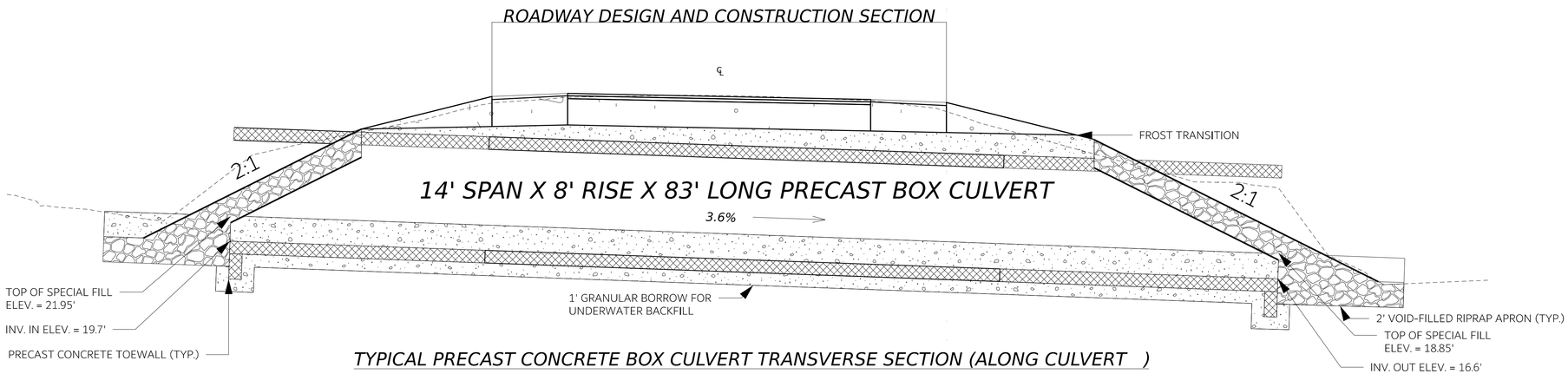
Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Quantities.dgn

SPECIAL DETAILS



TYPICAL PRECAST CONCRETE BOX CULVERT PLAN VIEW

ROADWAY DESIGN AND CONSTRUCTION SECTION



TYPICAL PRECAST CONCRETE BOX CULVERT TRANSVERSE SECTION (ALONG CULVERT)

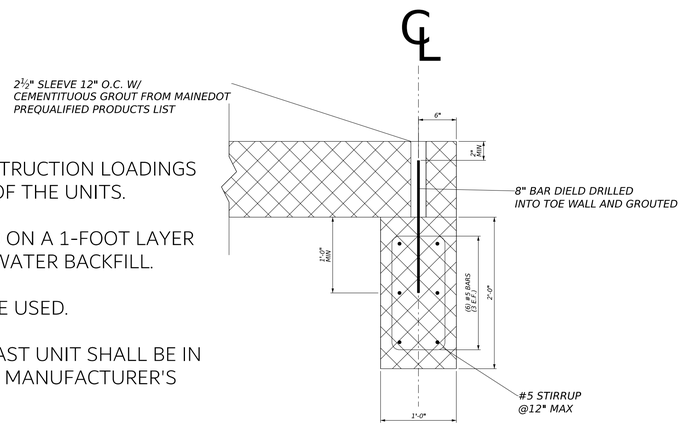
PRECAST CONCRETE BOX CULVERT NOTES:

1. THE PRECAST UNITS SHALL BE DESIGNED TO CARRY CONSTRUCTION LOADINGS WITH A MINIMUM FILL COVER OF 18 INCHES OVER THE TOP OF THE UNITS.

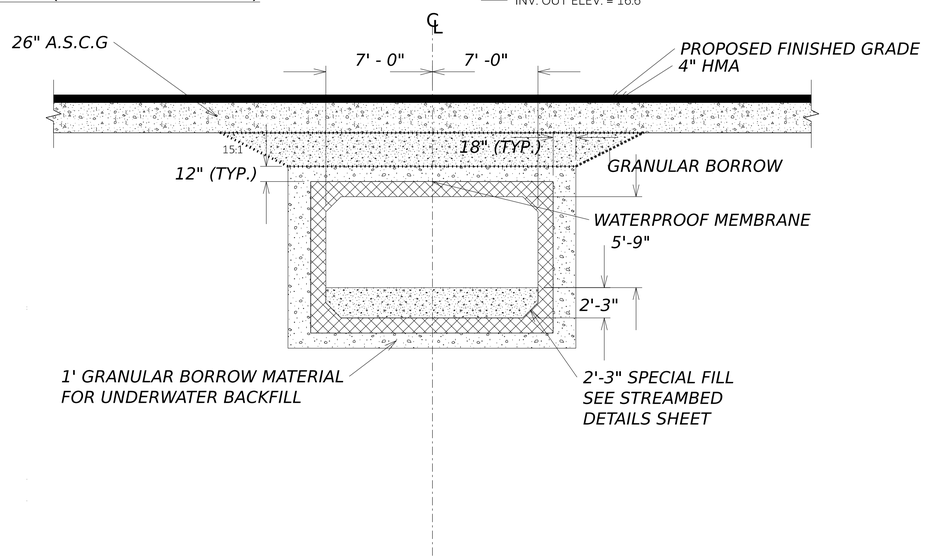
2. THE PRECAST CONCRETE BOX CULVERT SHALL BE BEDDED ON A 1-FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL.

3. A "CLAMSHELL" PRECAST CONCRETE BOX CULVERT MAY BE USED.

4. CONSTRUCTION, HANDLING AND ASSEMBLY OF THE PRECAST UNIT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 534 AND THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.



TYPICAL PRECAST CONCRETE TOEWALL DETAIL



TYPICAL PRECAST CONCRETE BOX CULVERT CROSS SECTION

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

26630.11

WIN
26630.11

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

	DATE	BY
PROJ. MANAGER: RANDELL BARROWS		
DESIGN-DETAILED		JAY BAINES
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PERRY
ROUTE 1

SPECIAL DETAILS

SHEET NUMBER

4

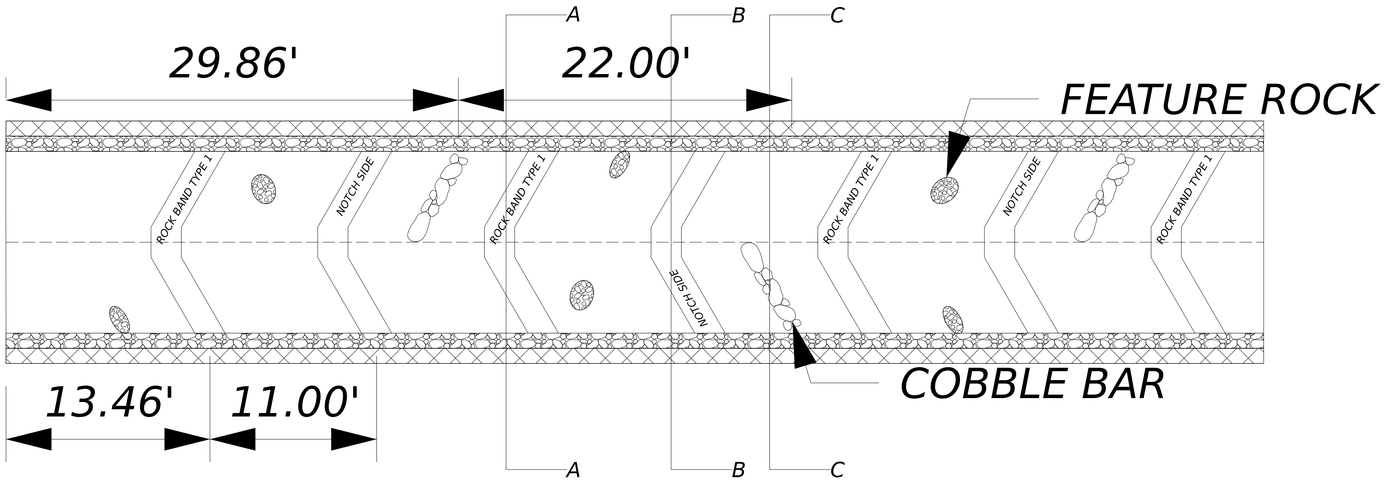
OF 16

Date: 8/21/2025

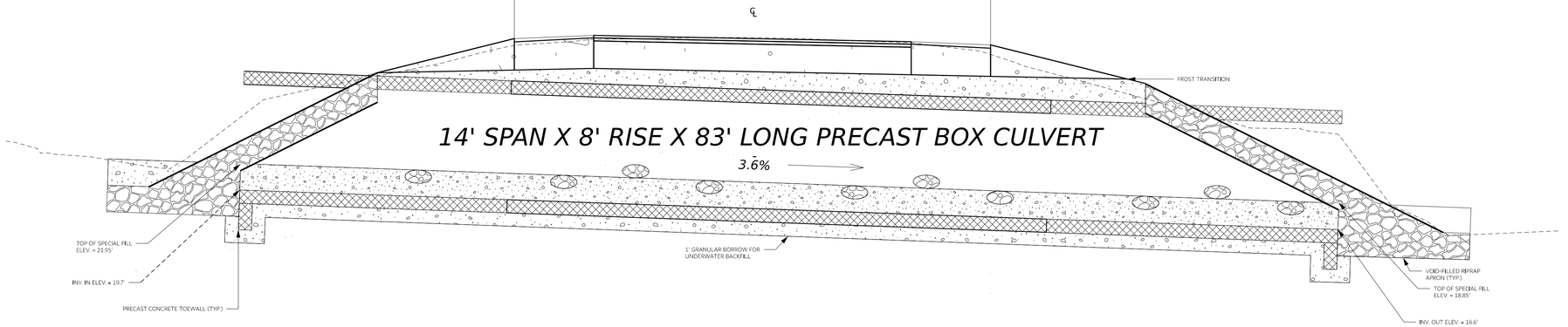
Username: James.Baines

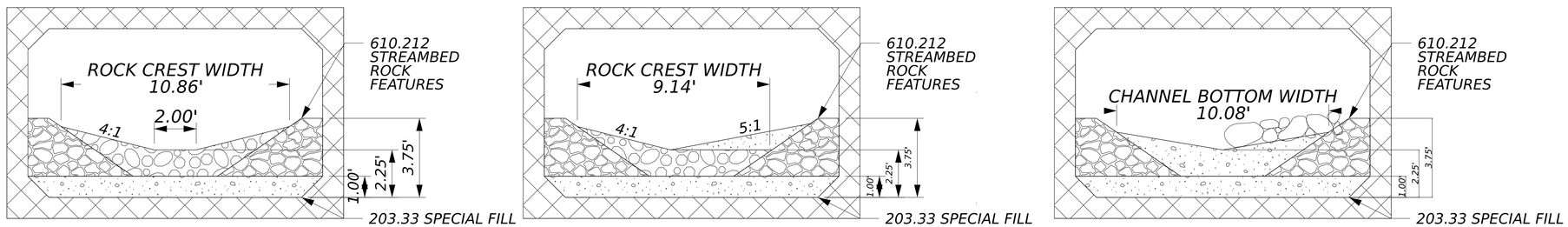
Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Detail_8ftRise_Culvert.dgn

STREAMBED DETAILS



ROADWAY DESIGN AND CONSTRUCTION SECTION





CONSTRUCTION NOTES
1. SPECIAL FILL - STREAMBED MATERIAL SHALL BE THOROUGHLY MIXED PRIOR TO PLACEMENT.
2. PLACE 1.0 FT LIFT OF SPECIAL FILL ON THE INVERT. MACHINE TAMP AND WATER-IN. THE RESIDENT SHALL APPROVE THE LIFT BEFORE PLACEMENT OF THE BANKLINES, ROCKBANDS AND THE FINAL LIFT.
3. PLACE A MINIMUM OF 3 LARGER STONES (24" TO 30") IN EACH ROCK BAND, AND BETWEEN BANDS ALONG THE BANKLINES, APPROXIMATELY AS SHOWN ON THE PLAN AND SECTIONS OR AS DIRECTED.
4. THE ROCK BANDS SHALL BE SLIGHTLY CURVED OR VEE-SHAPED IN PLAN VIEW WITH THE BEND OR VEE POINTED UPSTREAM.
5. THE AVERAGE FLOW LINE OF THE ROCK BANDS SHALL BE 3' ABOVE THE INVERT. THE FLOW LINE IS MEASURED AT THE CONTACT POINT BETWEEN ADJACENT ROCKS. THE TOP OF INDIVIDUAL LARGE ROCKS SHALL NOT EXTEND MORE THAN 1/3 THE HEIGHT OF THE STONE.
6. VOIDS IN THE STREAMBED MATERIAL, BANKLINE STONE AND ROCKBANDS SHALL BE FILLED AND SEALED SO THAT WATER REMAINS ON THE SURFACE OF THE CHANNEL, STAYS BETWEEN THE BANKLINES AND DOES NOT PIPE THROUGH THE STONE. REFER TO SPECIAL PROVISIONS 203 AND 610.
7. VOIDS IN RIPRAP APRONS SHALL BE INFILLED WITH GRANULAR BORROW OR OTHER MATERIAL APPROVED BY THE RESIDENT, WATERED-IN AND TAMPED.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2663011
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	R. BARROWS	
DESIGN-DETAILED	BY:	J.BAINES
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES	DATE	

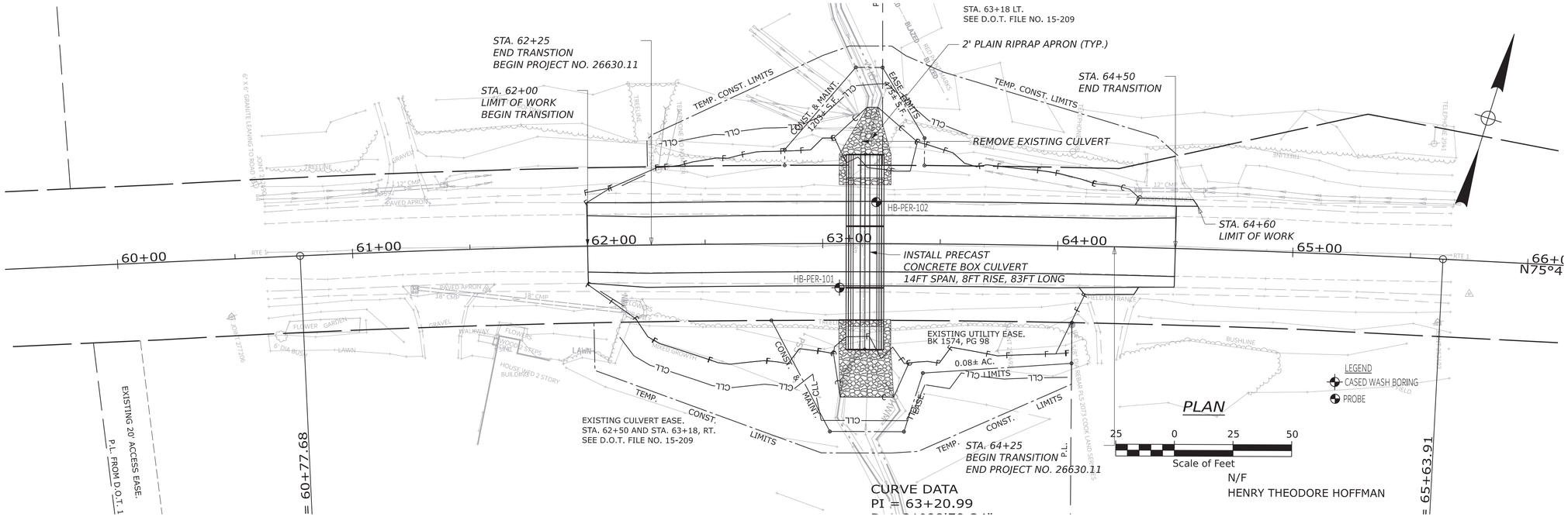
PERRY
ROUTE 1

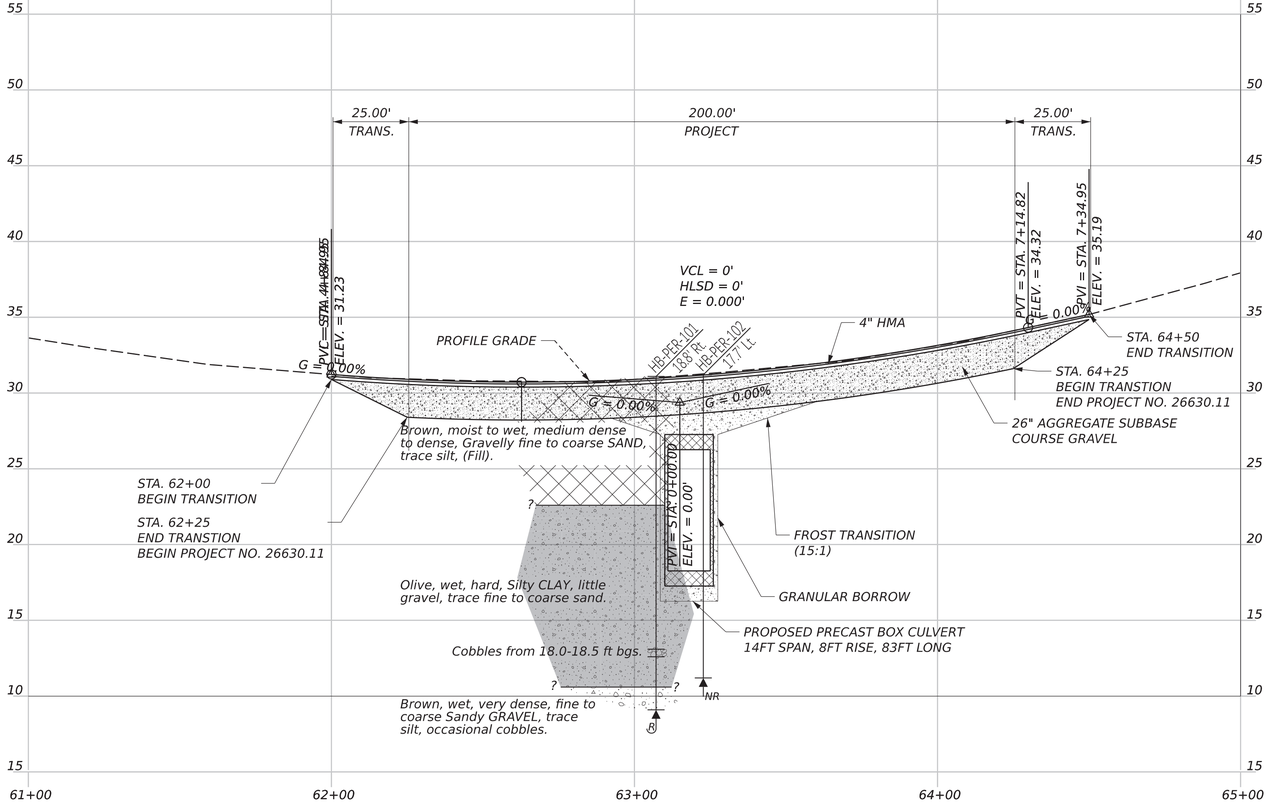
STREAMBED DETAILS

SHEET NUMBER
5
OF 16

Date: 8/21/2025
Username: James.Baines

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Detail_Streambed.dgn





Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

26630.11

HIGHWAY PLANS

STATE OF MAINE
Cody A. Russell
15866
LICENSED PROFESSIONAL ENGINEER

Cody A. Russell

SIGNATURE	
P.E. NUMBER	15866
DATE	8/12/2025

	BY	DATE
PROJ. MANAGER		#####
DESIGN-DETAILED		#####
CHECKED-REVIEWED		#####
DESIGN1-DETAILED2	Y.WHITE	AUG 2025
DESIGN2-DETAILED2	Y.T. LEE	#####
DESIGN3-DETAILED3		#####
REVISIONS 1		#####
REVISIONS 2		#####
REVISIONS 3		#####
REVISIONS 4		#####
FIELD CHANGES		#####

PERRY
U.S. ROUTE 1

BORING LOCATION PLAN &
INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

6

OF 16

Date: 8/12/2025

Username: Yueh-Ti.Lee

Filename: C:\Users\Yueh-Ti.Lee\State of Maine\MaineDOT Work - WIN\26630_11\GEOTECH\PlanProfile_2663011 Proposed GEOTECH.dgn

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 1 Large Culvert Replacement
Location: Perry, Maine

Boring No.: HB-PER-101
WIN: 26630.11

Driller:	MaineDOT	Elevation (ft.)	31.1	Auger ID/OD:	5" Solid Stem
Operator:	Daggett/Andrie	Datum:	NAVD88	Sampler:	Standard Split Spoon
Logged By:	B. Wilder	Rig Type:	CME 45C	Hanner Wt./Fall:	140#/30"
Date Start/Finish:	10/26/2023; 0900-1200	Drilling Method:	Cased Wash Boring	Core Barrel:	N/A
Boring Location:	63+07.1, 18.8 ft Rt.	Casing ID/OD:	NW-3"	Water Level*:	4.5 ft bgs.
Hanner Efficiency Factor:	0.906	Hanner Type:	Automatic ☒ Hydraulic ☐	Rope & Cathead ☐	

Definitions:
D = Split Spoon Sample
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test, PP = Pocket Penetrometer
MV = Unsuccessful Field Vane Shear Test Attempt
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of One Person
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_p = Unconfined Compressive Strength (tsf)
N-uncorrected = Raw Field SPT N-value
Hanner Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hanner Efficiency
N_{60} = Hammer Efficiency Factor/60(LWA-uncorrected
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Shear Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
0	1D	24/12	0.00 - 2.00	14/14/14/9	28	42	SSA			Brown, moist, dense, Gravelly fine to coarse SAND, trace silt, (Fill).	G#379694 A-1-a, SW-SM WC=5.4%
										Brown, wet, medium dense, Gravelly fine to coarse SAND, trace silt, (Fill).	
5	2D	24/14	4.00 - 6.00	7/7/4/3	11	17					
								22.6			
										Olive, wet, hard, Silty CLAY, little gravel, trace fine to coarse sand.	G#379695 A-6, CL WC=18.2% LL=35 PL=22 PI=13
10	3D	24/12	10.00 - 12.00	13/11/10/10	21	32	39				
							37				
							55				
							118				
							109			Olive, wet, hard, Silty CLAY, trace fine sand.	G#379696 A-6, CL WC=19.1% LL=34 PL=21 PI=13
15	4D	24/20	15.00 - 17.00	9/12/15/21	27	41	OPEN HOLE				
										Cobble from 18.0-18.5 ft bgs.	
								10.6			
20	5D	9.6/5	20.50 - 21.30	38/50(3.6")	---					Brown, wet, very dense, fine to coarse Sandy GRAVEL, trace silt. Roller Coned ahead to 22.0 ft bgs, cobbles and gravel.	G#379697 A-1-a, GW WC=3.8%
								9.1		Botton of Exploration at 22.0 feet below ground surface. Possible REFUSAL, very dense.	
25											

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: HB-PER-101

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Route 1 Large Culvert Replacement
Location: Perry, Maine

Boring No.: HB-PER-102
WIN: 26630.11

Drilling Contractor:	MaineDOT	Elevation (ft.)	31.2	Auger ID/OD:	5" Dia.
Operator:	Daggett/Andrie	Datum:	NAVD88	Sampler:	N/A
Logged By:	B. Wilder	Rig Type:	CME 45C	Hanner Wt./Fall:	N/A
Date Start/Finish:	10/26/2023-10/26/2023	Drilling Method:	Solid Stem Auger	Core Barrel:	N/A
Boring Location:	63+22.7, 17.7 ft Lt.	Casing ID/OD:	N/A	Water Level*:	None Observed

Definitions:
D = Split Spoon Sample
S = Sample off Auger Flights
B = Bucket Sample off Auger Flights
MD = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
MU = Unsuccessful Thin Wall Tube Sample Attempt
MV = Unsuccessful Field Vane Shear Test Attempt
V = Field Vane Shear Test, PP= Pocket Penetrometer
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hanner
WOR/C = Weight of Rods or Casing
WOP = Weight of 1 Person
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf)
$S_{u(LAB)}$ = Lab Vane Undrained Shear Strength (psf)
q_p = Unconfined Compressive Strength (tsf)
N-value = Raw Field SPT N-value
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows / 6 in. Shear Strength (psf) or RQD (%)	N-value	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class.
0						SSA			Probe, no material samples taken.	
5										
10										
15										
20							11.2		Botton of Exploration at 20.0 feet below ground surface. NO REFUSAL	
25										

Remarks:

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.

* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.

Page 1 of 1

Boring No.: HB-PER-102

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

26630.11

HIGHWAY PLANS

STATE OF MAINE · Cody A. Russell · 15866 · LICENSED PROFESSIONAL ENGINEER

BY	DATE	
Cody A. Russell		SIGNATURE
		15866 P.E. NUMBER
	AUG 2025	8/12/2025 DATE

PROJ MANAGER	
DESIGN-DETAILED	
CHECKED-REVIEWED	
DESIGN2-DETAILED2	YT LEE
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

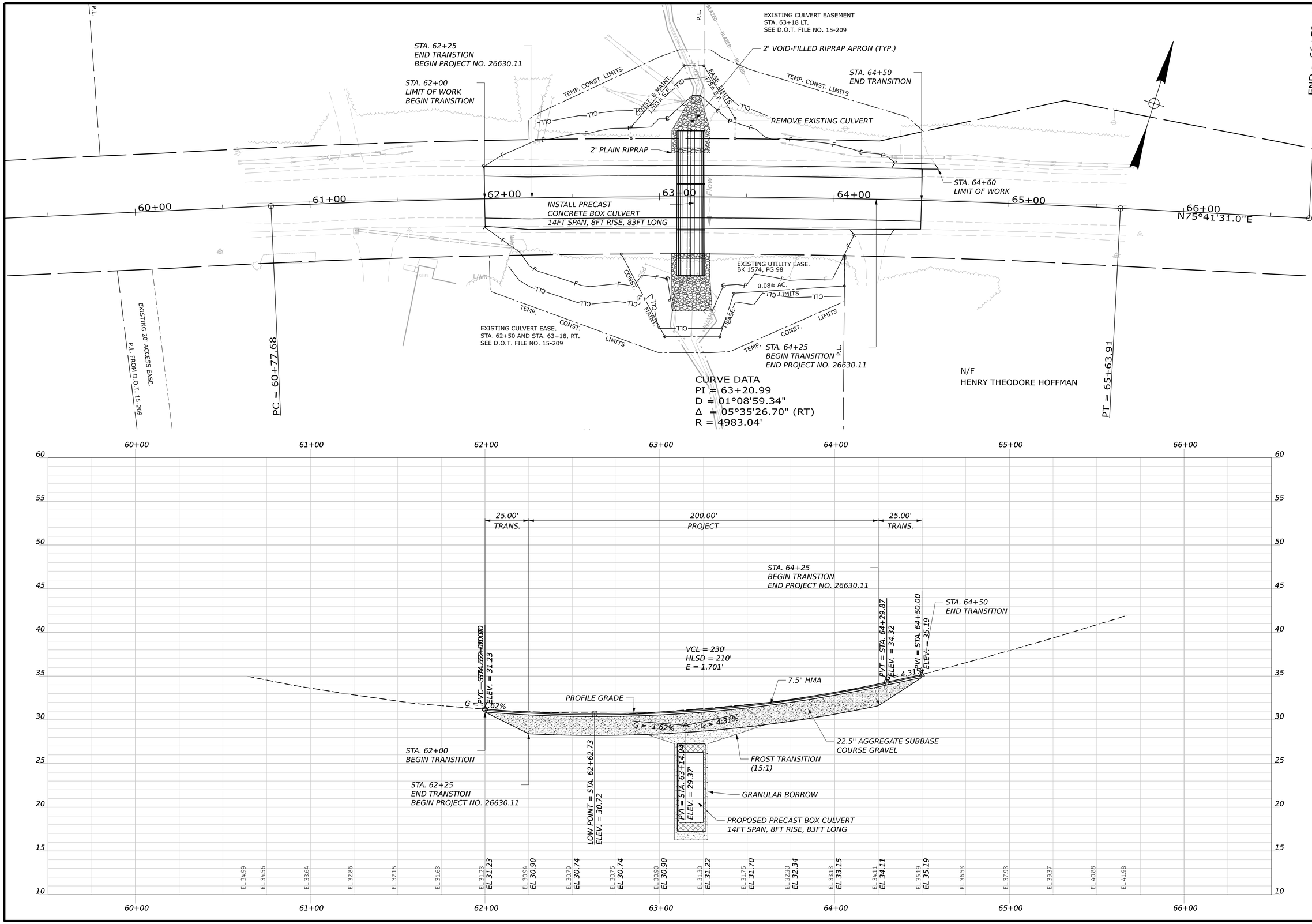
PERRY
U.S. ROUTE 1

BORING LOGS

SHEET NUMBER
7
OF 16

Username: Yueh-Ti.Lee Date: 8/12/2025

Filename: C:\Users\Yueh-Ti.Lee\State of Maine\MaineDOT Work - WIN\26630_11\GEOTECH\Boring_Log_Plan1.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

PROJ MANAGER	R. BARRONS		
DESIGN-DETAILED	J. BAINES	BY:	V. GEMMA
CHECKED-REVIEWED		DATE:	AUG 2025
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

PERRY
ROUTE 1

PLAN / PROFILE

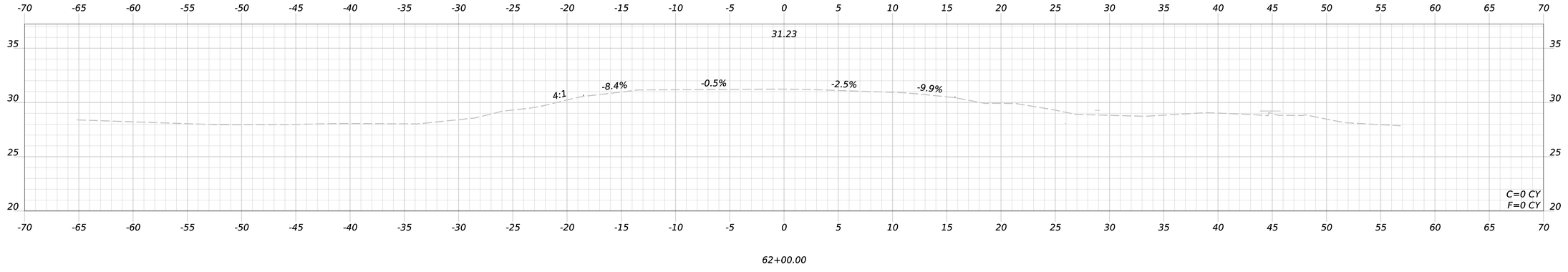
SHEET NUMBER

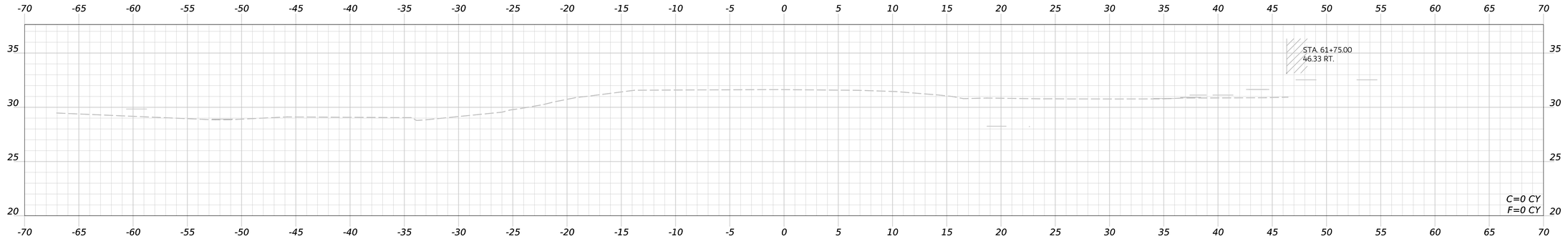
8

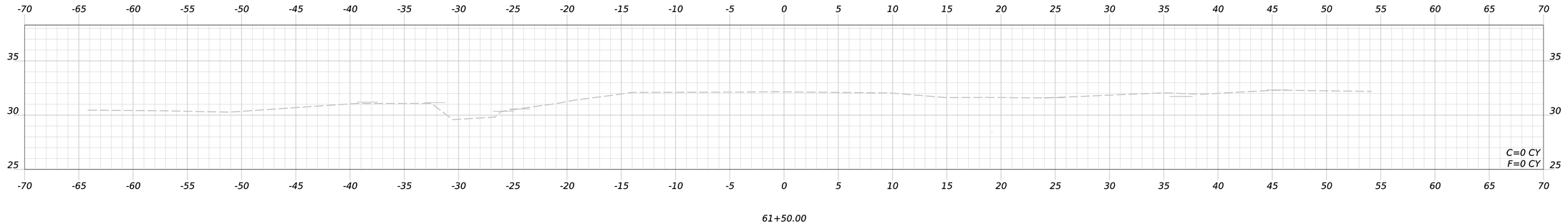
OF 16

Username: James.Baines Date: 8/21/2025

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\PlanProfile_2663011 Proposed.dgn







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

	BY	DATE
PROJ. MANAGER	R. BARRONS	
DESIGN-DETAILED	J. BAINES	AUG 2025
CHECKED-REVIEWED	V. GEMMA	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

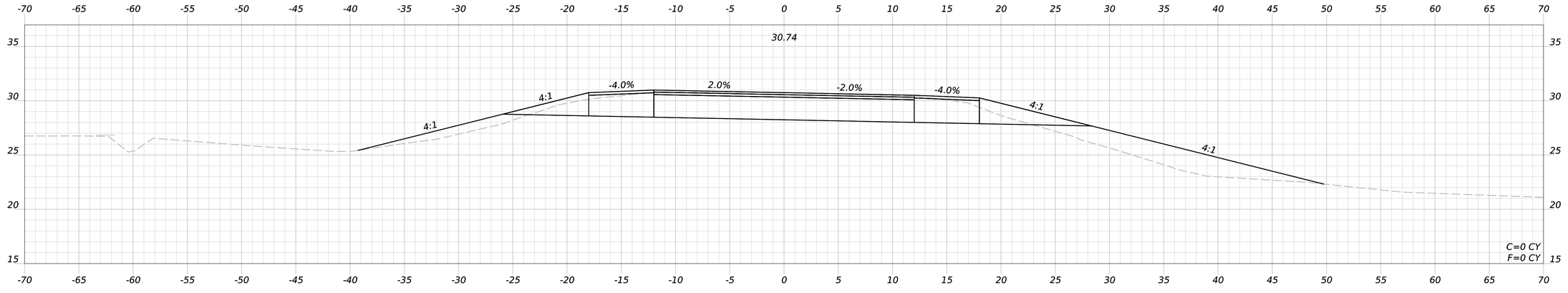
9

OF 16

Date: 8/20/2025

Username: James.Baines

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Cross_Sections_Proposed.dgn



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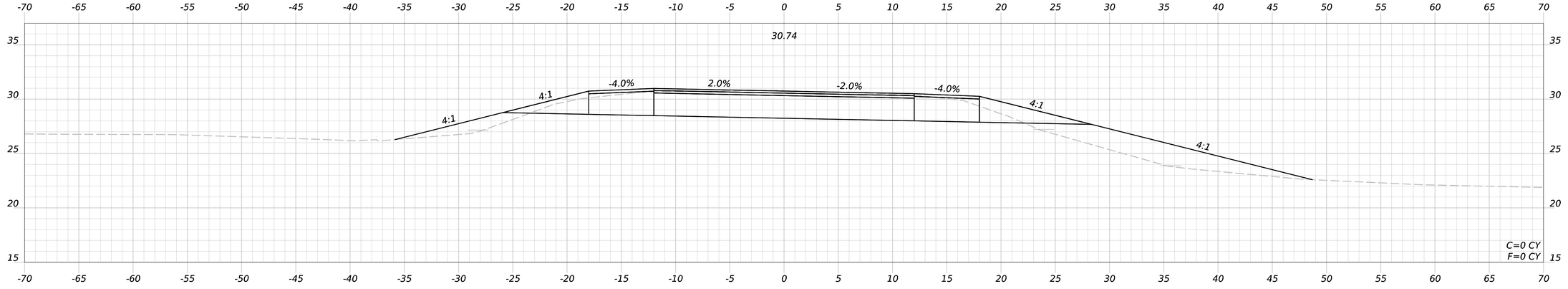

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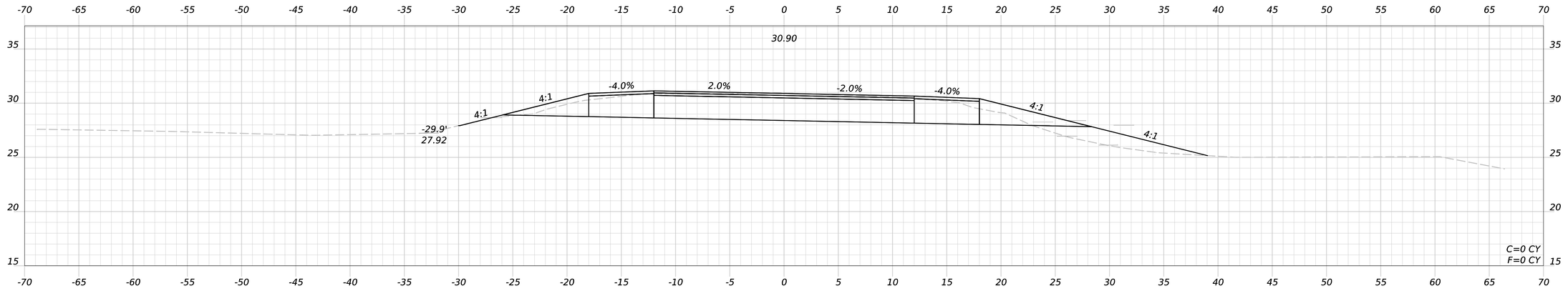


62+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

PROJ. MANAGER	R. BARROWS	
DESIGN-DETAILED	J. BAINES	AUG 2025
CHECKED-REVIEWED	V. GEMMA	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

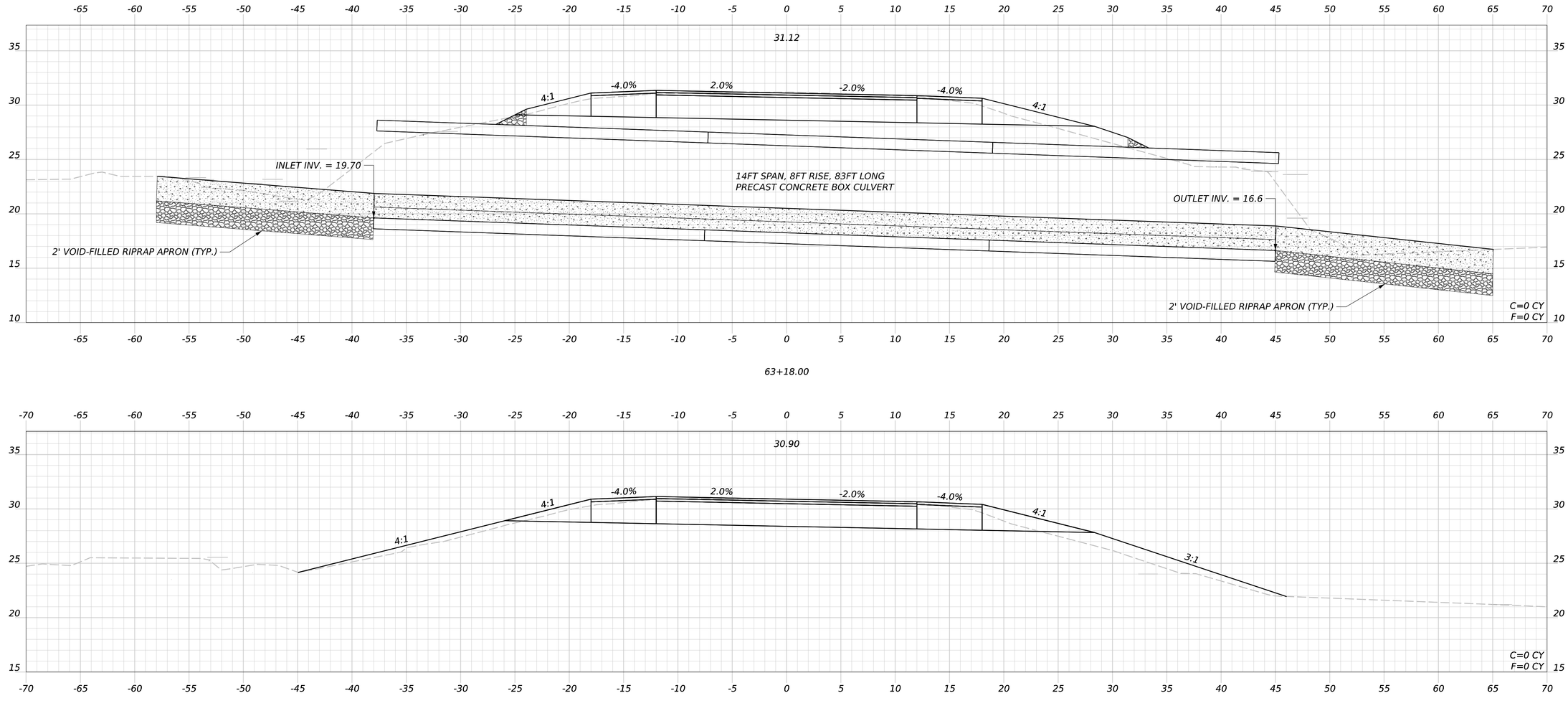
10

OF 16

Date: 8/20/2025

Username: James.Baines

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Cross_Sections_Proposed.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

	SIGNATURE	DATE
P.E. NUMBER		

	BY	DATE
R. BARROWS	J. BAINES	AUG 2025
PROJ. MANAGER	V. GEMMA	
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

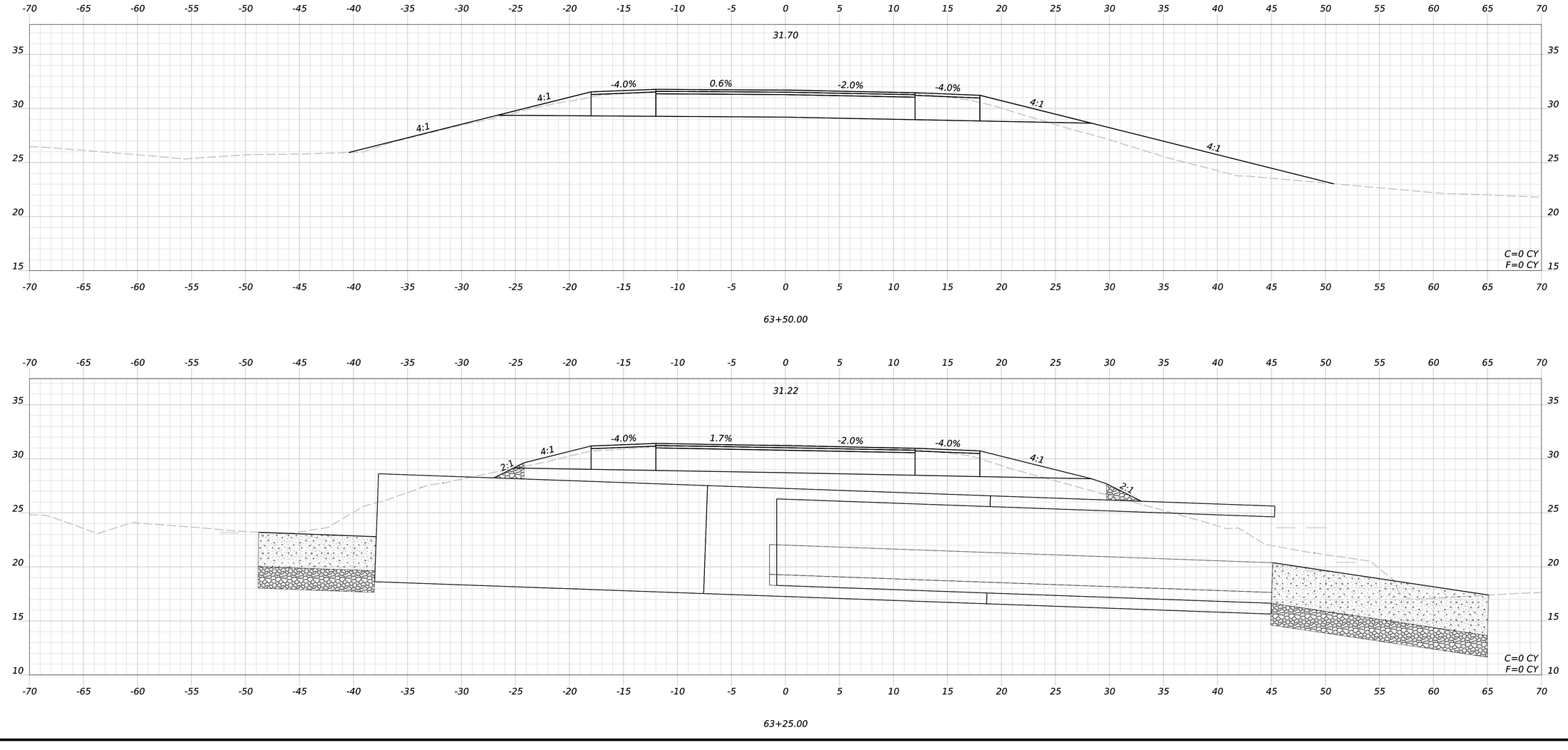
11

OF 16

Date: 8/21/2025

Username: James.Baines

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Cross_Sections_Proposed.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

	BY	DATE
PROJ MANAGER	R. BARRONS	
DESIGN-DETAILED	J. BAINES	AUG 2025
CHECKED-REVIEWED	V. GEMMA	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

12

OF 16

Date: 8/20/2025

Username: James.Baines

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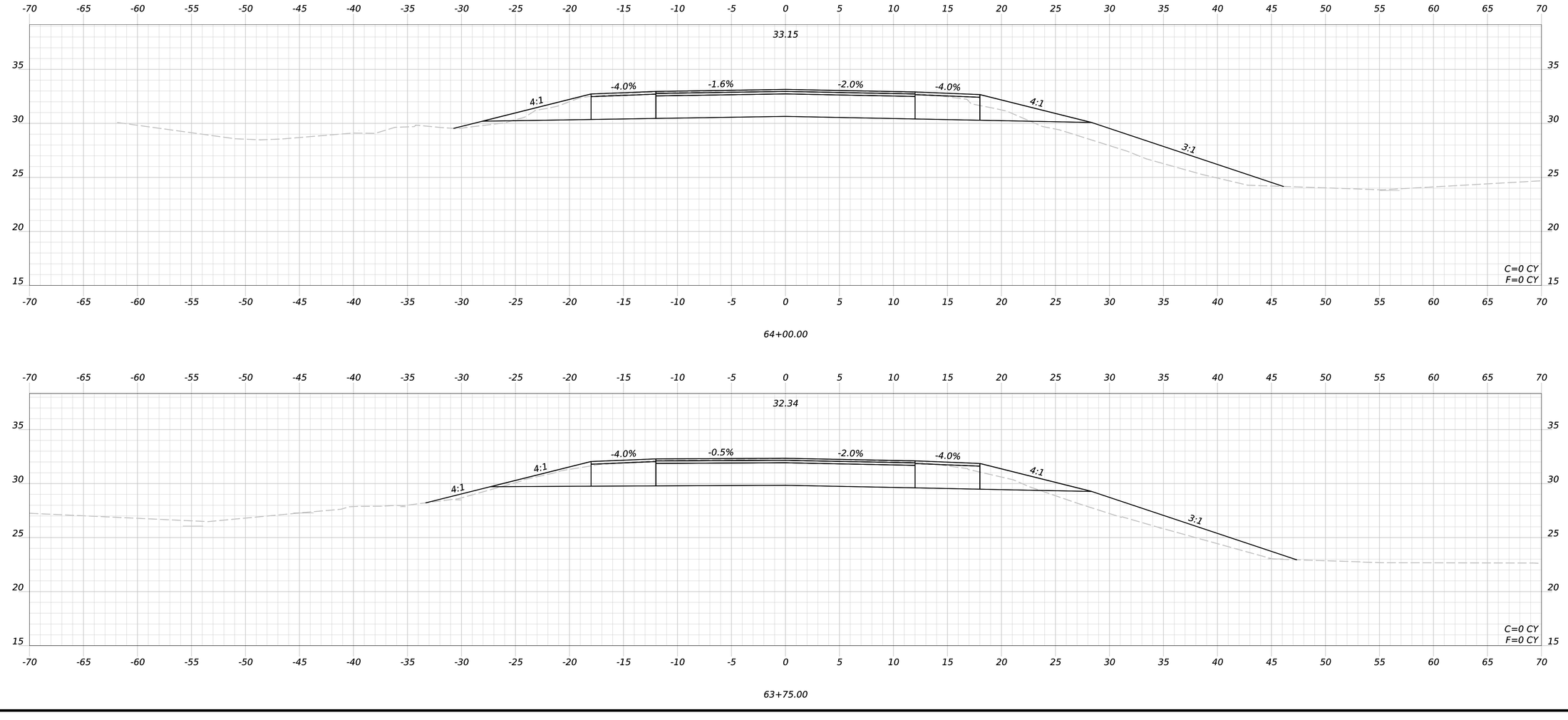

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

	BY	DATE
PROJ. MANAGER	R. BARRONS	
DESIGN-DETAILED	J. BAINES	AUG 2025
CHECKED-REVIEWED	V. GEMMA	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

13

OF 16

Date: 8/20/2025

Username: James.Baines

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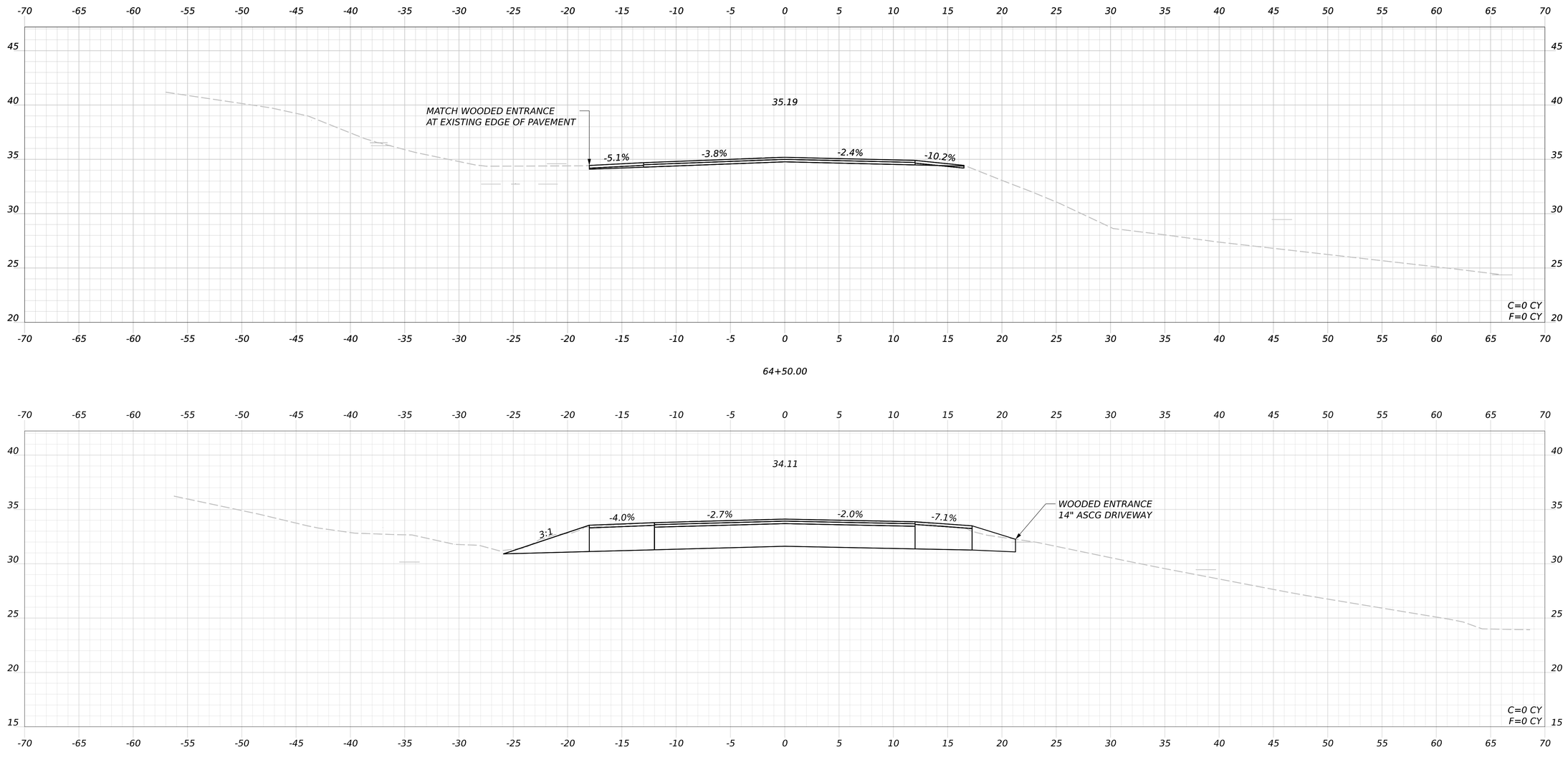

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

	BY	DATE
PROJ MANAGER	R. BARRONS	
DESIGN-DETAILED	J. BAINES	
CHECKED-REVIEWED	V. GEMMA	AUG 2025
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

14

OF 16

Username: James.Baines Date: 8/20/2025

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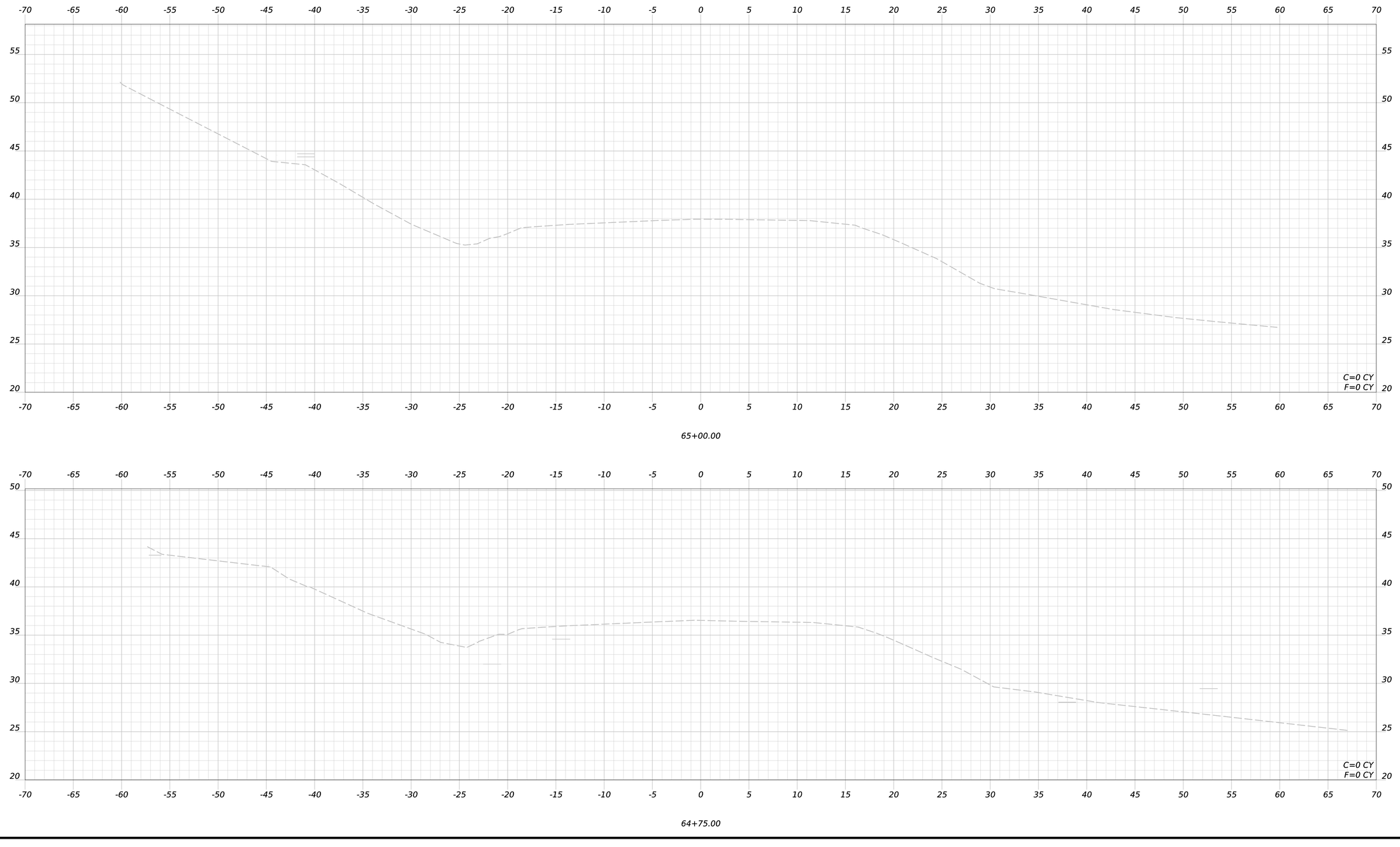


65+00.00

64+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2663011

WIN
26630.11

HIGHWAY PLANS

PROJ. MANAGER	R. BARRONS		
DESIGN-DETAILED	J. BAINES		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1	V. GEMMA	AUG 2025	
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

PERRY
ROUTE 1

CROSS SECTIONS

SHEET NUMBER

15

OF 16

Date: 8/20/2025

Username: James.Baines

Filename: C:\Users\james.baines\State of Maine\MaineDOT Work - WIN\26630_11\HIGHWAY\Cross_Sections_Proposed.dgn

PLAN LEGEND

Town, County, State
Approx. Property Lines
Existing Right of Way
Limits of Wrought Portion — LIMITS OF WROUGHT PORTION
Control Of Access
New Right of Way
New Easement
New Temporary Rights — TEMP. CONST. LIMITS
New R/W Within Existing R/W

New R/W Along Existing R/W
Building — Clearing Limit Line — CLL
Trees — Conifer — Deciduous
Tree Line — Bush Line
Water Edge
Ledge — Rock/Boulder — Flag Pole
Fence — CHAIN LINK — BARB WIRE — STOCKADE
Sign — Well — Mailbox

	Existing	Proposed
Sanitary Sewer		SA
Com. Line UG	COM	UG COMM
Electric Line	E	UG POW
Water Line	W	WL
Underdrain Line		
Gas Line	G	GAS
Guardrail		
Culvert		

	Existing	Proposed
Traveled Way		
Ditch		
Catch Basin		
Manhole		
Sewer Manhole		
Utlity Pole		
Fire Hydrant		
Curbing		

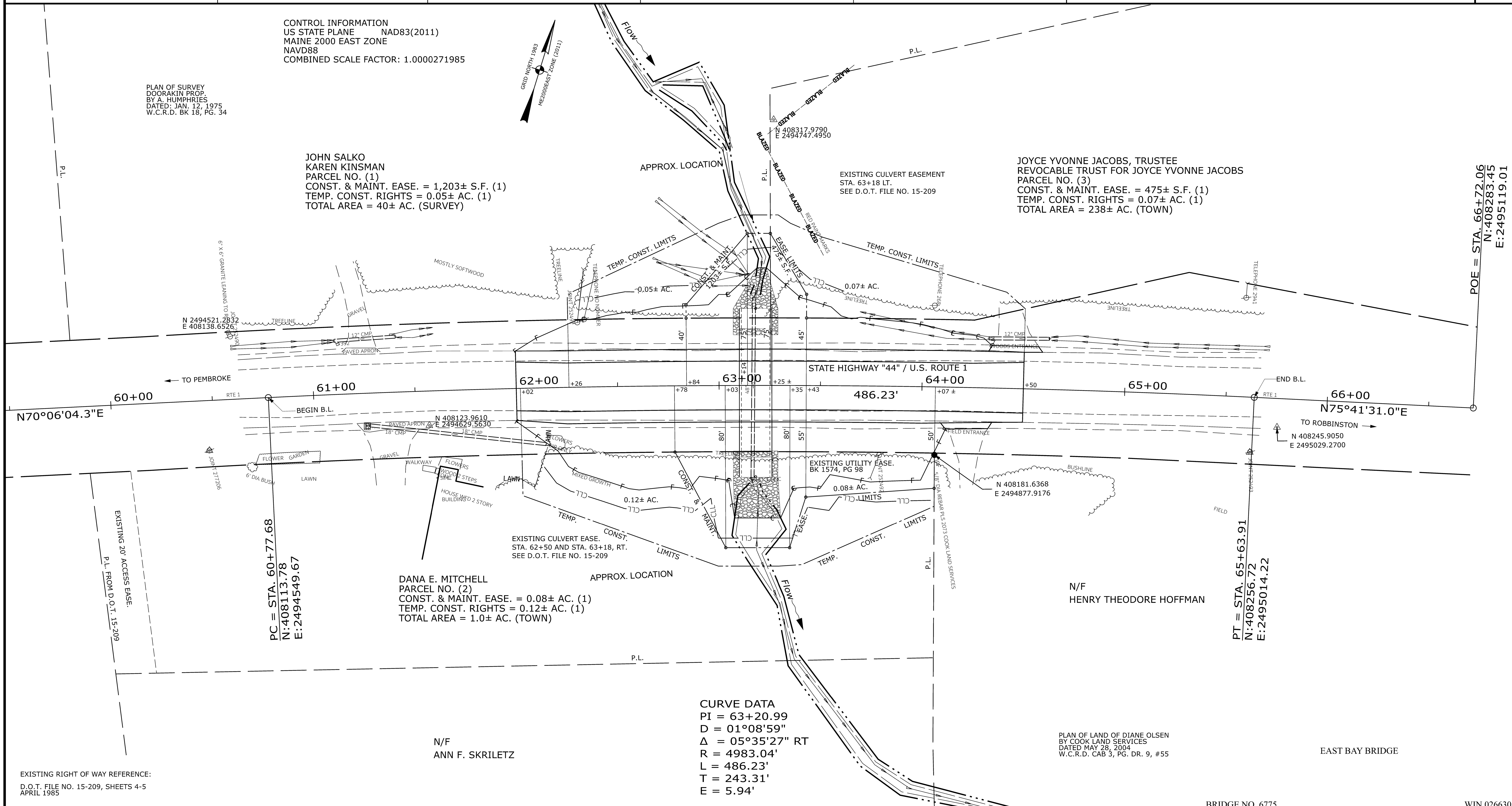
Cut Line — Fill Line
Stonewall — Retaining Wall
Baseline — 10+00 — 11+00 — 12+00
Monument — Traverse Point
Iron Rod Set — IRS — Pipe Found — IPF

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

25 0 25 50 75 100
Scale of Feet

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY OF ________
RECEIVED ________, 20____
AT____ HRS.____ MINS.____ .M.
AND RECORDED IN
PLAN BOOK (OR FILE NO.) ________, PAGE ________
ATTEST: ________
REGISTER



BRIDGE NO. 6775

WIN 026630.11

CHECKED	JDF	DSG	JDF
TECH	CDP	NSE	NSE
ITEM	EXISTING CONDITION PLAN	FINAL RIGHT OF WAY	AREAS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
PERRY
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK		PAGE	COUNTY RECORD		
NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "44"
U.S. ROUTE 1
PERRY — WASHINGTON COUNTY
FEDERAL AID PROJECT NO. 2663000
JUNE 2025 — SCALE 1"= 25'
RIGHT-OF-WAY MAP — SHEET 1 OF 1
D.O.T. FILE NO. 15-359

SHEET NUMBER
16
OF 16

Username: carlton.d.peabody Date: 8/7/2025

Filename: C:\Users\carlton.d.peabody\State of Maine\MaineDOT Work - WIN\26630_11\ROW\000_Right-of-Way_Plan.dgn